

Piedmont Regional Office
JUN 03 2013
RECEIVED

LAND APPLICATION OF BIOSOLIDS

JOE WATKINS

KW 13 (FIELDS 1-7)

KING WILLIAM COUNTY, VIRGINIA

AUGUST 2011



A Residuals Management Company

August 24, 2011

Mr. Scott Haley
Dept of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Haley:

Transmitted herein for your consideration is land application site for Joe Watkins (designated as KW 13, fields (1-7), located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in dark ink, appearing to read "Chris Sylva".

Chris Sylva
Technical Services Manager

WCS/cmw



FIELD SUMMARY SHEET

JOE WATKINS KW 13

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
1	33.5	33.5	400		Hanover	Watkins Farm Inc.
2	24.7	24.7	400		Hanover	Watkins Farm Inc.
3	30.1	30.1	400		Hanover	Watkins Farm Inc.
4	32.8	32.8	400		Hanover	Watkins Farm Inc.
5	55.0	55.0	400		Hanover	Watkins Farm Inc.
6	29.5	29.5	400			Watkins Farm Inc.
7	33.0	33.0	400			Watkins Farm Inc. & King William Ind. Park
TOTALS:	238.6	238.6				



VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Watkins Farm Inc. PHONE: (804) 769-3509
ADDRESS: 439 Old Newcastle Rd. Mangin, VA 23106
FARM LOCATION: Same as above

FSA TRACT #: _____

TOTAL ACRES: _____ COUNTY: King William + King + Queen

CROPS: Hay, Row crops

1. I agree to be responsible for adhering to the following conditions, where applicable:
 - a. The soil pH will be adjusted ≥ 6.0 when biosolids are applied. (This may be accomplished through the application of lime-treated biosolids).
 - b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the application of biosolids.
 - c. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 14 months after the application of biosolids.
 - d. Food crops for direct human consumption with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface ≥ 4 months prior to incorporation into the soil or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation.
 - e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days after application of biosolids. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate provisions are made to prevent public exposure to soils, dusts or aerosols.
 - g. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
 - h. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted site.
 - i. Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.
2. I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is willing to provide to me without charge the service of land applying biosolids which have been approved by the appropriate regulatory agencies for land application.
3. I understand that successful crop production depends on many variables, such as weather, soil conditions and specific farming practices and that while Synagro has experience with land application of biosolids, the responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also read and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side and incorporated by reference in this Request and Consent.

Watkins Farm Inc. by C.S. (Joe) Watkins III
OPERATOR'S SIGNATURE

7-17-9
DATE

Synagro * 10647 Tidewater Trail * Champlain, VA 22438 * 804.443.2170

VIRGINIA LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

OWNER NAME: WATKINS FARM INC. PHONE: (804) 769-3509
ADDRESS: 439 OLD NEWCASTLE Rd P.O. Box 238 MANQUIN, VA.
OPERATOR NAME: JOE WATKINS TOTAL ACRES: 23/06
FSA TRACT #: 183 COUNTY: King William

The undersigned hereby agrees to the application of biosolids by Synagro at application rates in accordance with applicable laws and regulations.

This biosolids application agreement is made on 4/12/08 between Watkins Farm ("Landowner") and Synagro (owner of the permit).

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as _____ ("Landowner's land"). Synagro agrees to apply and Landowner agrees to comply with certain permit requirements following application of biosolids on Landowner's land in amounts and in a manner authorized by permit number _____ which is held by Synagro.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property. Moreover, Landowner acknowledges having been expressly advised that, in order to protect public health:

1. I understand that Synagro will coordinate biosolids deliveries with my farm operator hereinafter (leasee) unless otherwise advised by me.
2. I agree to allow Synagro and federal, state and local regulatory staff access to my land for the purposes of permitting the site, inspecting the site, applying biosolids, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. I understand that the following conditions apply to my land following biosolids applications and that my leasee has signed an agreement form with Synagro stating that my leasee will be responsible for following these conditions where applicable:
 - a. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production shall not be allowed to graze on the land for 60 days after the application of biosolids.
 - b. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface \geq 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface $<$ 4 months prior to incorporation. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
 - c. Public access to land with a low potential for public exposure (land the public uses infrequently including but not limited to agricultural land and forests) shall be restricted for 30 days. Public access to land with a high potential for public exposure (land the public uses frequently including but not limited to a public contact site such as parks, playgrounds and golf courses) shall be restricted for 1 year.
 - d. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the Landowner by Synagro at the time of application of biosolids to a specific permitted site.
5. Tobacco, because it has been shown to accumulate cadmium, should not be grown on Landowner's land for 3 years following the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/ac (0.5 kg/ha).
6. I have also read the "Information About Biosolids" which is on the reverse side and incorporated by reference in this Consent.
7. The term of this Consent shall continue until written notification is given by either party to terminate this agreement. Furthermore, due to the significant costs incurred by Synagro to permit the land application site, I agree not to change to another biosolids provider for a period of three years from the date of permit issuance.
8. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.

C.S. Watkins III
OWNER SIGNATURE (If signing as a representative, include title)

4-12-08
DATE

**VIRGINIA POLLUTION ABATEMENT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT- BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This biosolids/industrial residuals land application agreement is made on 11/6/12 between Charles referred to here as "Landowner", and Synagro referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

I am the registered owner of real property known as Charles S. Watkins, located in KW, Virginia, which includes the agricultural sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>3415C</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ I am the sole owner of the properties identified herein.
☒ I am one of multiple owners of the properties identified herein.

In the event that I, the landowner, sell or transfer all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, I shall:

1. Notify the purchaser of the applicable public access and crop management restrictions no later than the closing date; and
2. Notify the permit holder of the sale within two weeks following closing.

I have no other agreements for land application on the fields identified herein. I will notify the permittee immediately if conditions change such that the fields are no longer available to the permittee for application or any part of this agreement becomes invalid.

I hereby grant permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. I also grant permission for DEQ staff to conduct inspections on my land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

<u>C.S. Watkins</u>	<u>C.S. Watkins</u>	<u>439 Old Newcastle Rd Manassas, VA</u>
Landowner- Printed Name	Signature	Mailing Address

Permittee:

Synagro, the permittee, agrees to apply biosolids and/or industrial residuals on the landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia. Permittee will provide a copy of the NMP to the landowner within 30 days after land application has commenced. If the plan requires modification to reflect the actual application rates or farming practices at the site, a revised plan will be provided within 2 weeks of the modification.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for land application and specifically prior to any particular application to landowner's land. Notice shall include the source of residuals to be applied.

<u>Chris Silva</u>	<u>Chris Silva</u>	<u>10647 Tidewater Trail</u>
Permittee- Authorized Representative	Signature	Mailing Address
Printed Name		Champlain, VA 22438

**VIRGINIA POLLUTION ABATEMENT APPLICATION
PART D-VI LAND APPLICATION AGREEMENT**

Page 2 of 2

Permittee: Synagro Central, LLC

Permit # or County: _____

Landowner: Charles Watkins

Farm Name or Address: Watkins

Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

C.S. Watkins III
Landowner's Signature

11/16/12
Date



VIRGINIA LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

OWNER NAME: Shirley Watkins PHONE: 804 769-3509
ADDRESS: 439 Old Newcastle Rd, PO Box 238 Mangum VA
OPERATOR NAME: Joe Watkins TOTAL ACRES: 23106
FSA TRACT #: _____ COUNTY: King William

The undersigned hereby agrees to the application of biosolids by Synagro at application rates in accordance with applicable laws and regulations.

This biosolids application agreement is made on 4/9/11 between Shirley Watkins (Landowner) and Synagro (owner of the permit).

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as _____ (Landowner's land). Synagro agrees to apply and Landowner agrees to comply with certain permit requirements following application of biosolids on Landowner's land in amounts and in a manner authorized by permit number _____ which is held by Synagro.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property. Moreover, Landowner acknowledges having been expressly advised that, in order to protect public health:

1. I understand that Synagro will coordinate biosolids deliveries with my farm operator hereinafter (leasee) unless otherwise advised by me.
2. I agree to allow Synagro and federal, state and local regulatory staff access to my land for the purposes of permitting the site, inspecting the site, applying biosolids, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. I understand that the following conditions apply to my land following biosolids applications and that my leasee has signed an agreement form with Synagro stating that my leasee will be responsible for following these conditions where applicable:
 - a. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production shall not be allowed to graze on the land for 60 days after the application of biosolids.
 - b. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface \geq 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface $<$ 4 months prior to incorporation. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
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 - d. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
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6. I have also read the "Information About Biosolids" which is on the reverse side and incorporated by reference in this Consent.
7. The term of this Consent shall continue until written notification is given by either party to terminate this agreement. Furthermore, due to the significant costs incurred by Synagro to permit the land application site, I agree not to change to another biosolids provider for a period of three years from the date of permit issuance.
8. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.

Shirley A. Watkins
OWNER SIGNATURE (If signing as a representative, include title)

4/9/11
DATE

VIRGINIA LANDOWNER CONSENT FOR BIOSOLIDS APPLICATION

OWNER NAME: King William Ind. Park C/O John Mull PHONE: (804) 769-3509
ADDRESS: Marguin VA. P.O. Box 238
OPERATOR NAME: Joe Watkins TOTAL ACRES: _____
FSA TRACT #: 1736 COUNTY: King William

The undersigned hereby agrees to the application of biosolids by Synagro at application rates in accordance with applicable laws and regulations.

This biosolids application agreement is made on 4/12/08 between John Mull (Landowner) and Synagro (owner of the permit).

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as _____ (Landowner's land). Synagro agrees to apply and Landowner agrees to comply with certain permit requirements following application of biosolids on Landowner's land in amounts and in a manner authorized by permit number _____ which is held by Synagro.

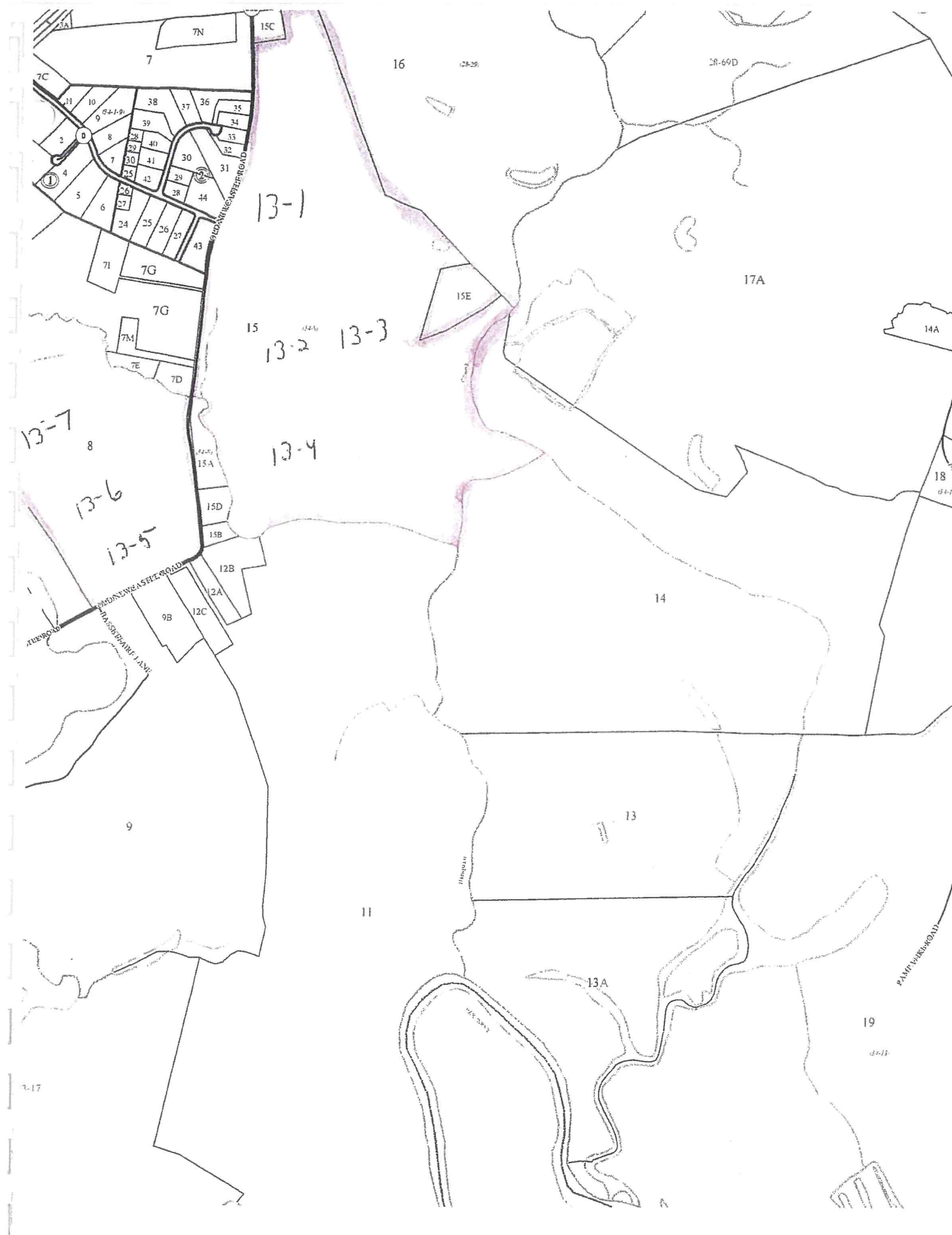
Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property. Moreover, Landowner acknowledges having been expressly advised that, in order to protect public health:

1. I understand that Synagro will coordinate biosolids deliveries with my farm operator hereinafter (leasee) unless otherwise advised by me.
2. I agree to allow Synagro and federal, state and local regulatory staff access to my land for the purposes of permitting the site, inspecting the site, applying biosolids, obtaining samples from the site and testing. I reserve the right to ask the above parties for proper identification at any time.
3. I understand that the following conditions apply to my land following biosolids applications and that my leasee has signed an agreement form with Synagro stating that my leasee will be responsible for following these conditions where applicable:
 - a. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended for dairy production shall not be allowed to graze on the land for 60 days after the application of biosolids.
 - b. Food crops (crops consumed by humans including but not limited to fruits, vegetables and tobacco) with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface ≥ 4 months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface < 4 months prior to incorporation. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
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 - d. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the Landowner by Synagro at the time of application of biosolids to a specific permitted site.
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8. I certify that I am holder of legal title to the above described property or am authorized by the holder to give consent for the land application of biosolids and that there are no restrictions to the granting of consent under this form.

OWNER SIGNATURE (If signing as a representative, include title)

DATE

Synagro • 10647 Tidewater Trail • Champlain, VA 22438 • 804-443-2170



Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
Watkins Farm Inc. C.S. & Shirley	1	34-15, 34-15C
Watkins Farm Inc.	2	34-15
Watkins Farm Inc.	3	34-15
Watkins Farm Inc.	4	34-15
Watkins Farm Inc.	5	34-8
Watkins Farm Inc.	6	34-8
Watkins Farm Inc. and King William Ind. Park	7	34-8, 33-11A, 33-11B

MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



Property Line

Farm Summary Report

Farm Name: KW13

Field Name: 01

Soils:

PERCENT	SYMBOL	SOIL SERIES
75	27A	STATE1
18	1A	Altavista
4	9A	Daleville
3	29B	Tarboro

:

Field Name: 02

Soils:

PERCENT	SYMBOL	SOIL SERIES
85	24A	Roanoke
8	26A	Slagle
1	27A	STATE1
6	1A	Altavista

Field Name: 03

Soils:

PERCENT	SYMBOL	SOIL SERIES
64	26A	Slagle
24	25A	Seabrook
8	29B	Tarboro
4	24A	Roanoke

Field Name: 04

Soils:

PERCENT	SYMBOL	SOIL SERIES
1	16A	Mattan
17	1A	Altavista
14	24A	Roanoke
41	26A	Slagle
11	27A	STATE1
16	29B	Tarboro

Field Name: 05

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	11A	Eulonia
58	1A	Altavista
22	30A	Tomotley

Field Name: 06

Soils:

PERCENT	SYMBOL	SOIL SERIES
66	11A	Eulonia
3	11B	Eulonia
31	24A	Roanoke

Field Name: 07

Soils:

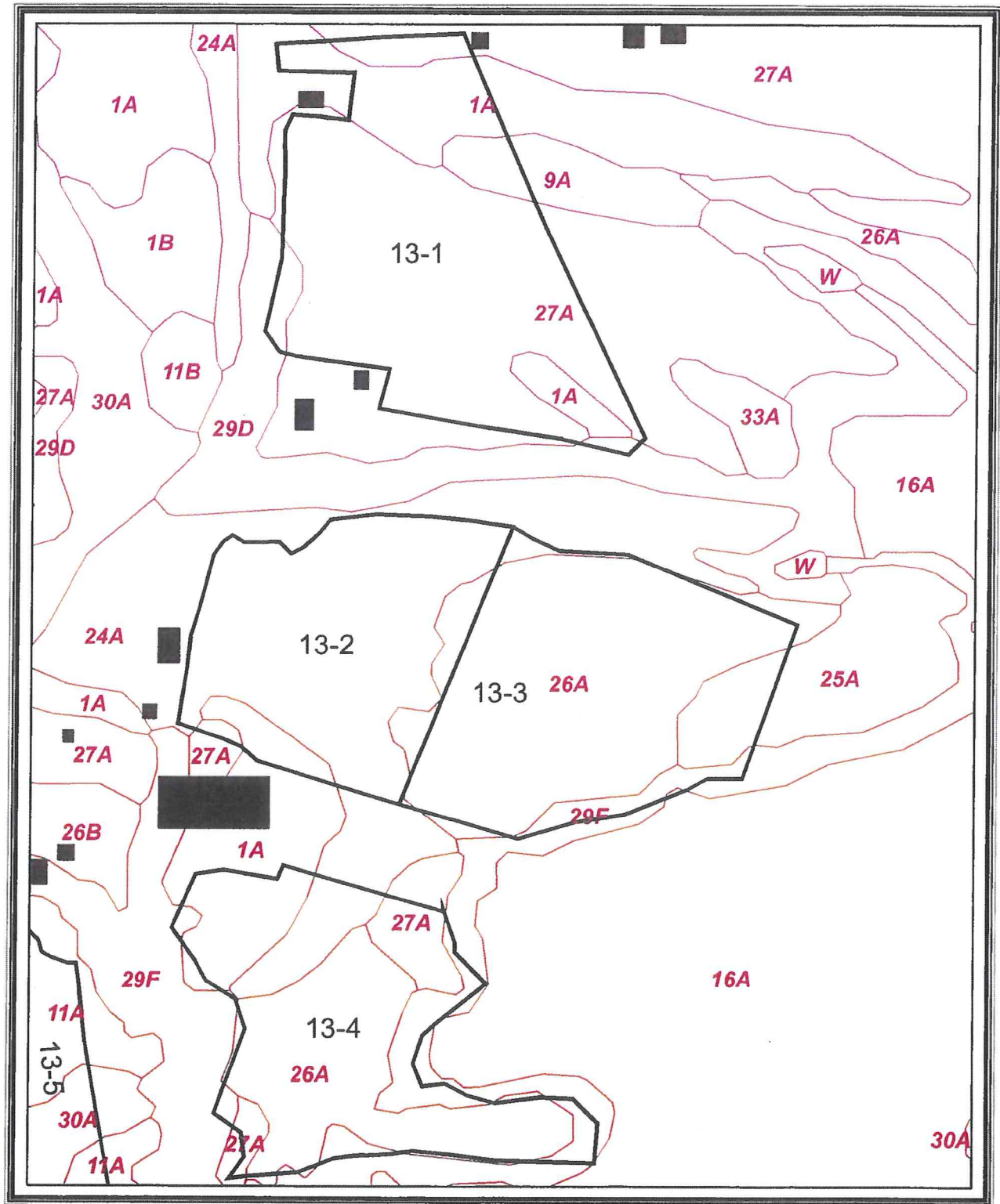
PERCENT	SYMBOL	SOIL SERIES
35	1A	Altavista
17	24A	Roanoke
48	30A	Tomotley



SYNAGRO

A Residuals Management Company

Joe Watkins
KW 13
Fields 1-4



1 inch = 660 feet

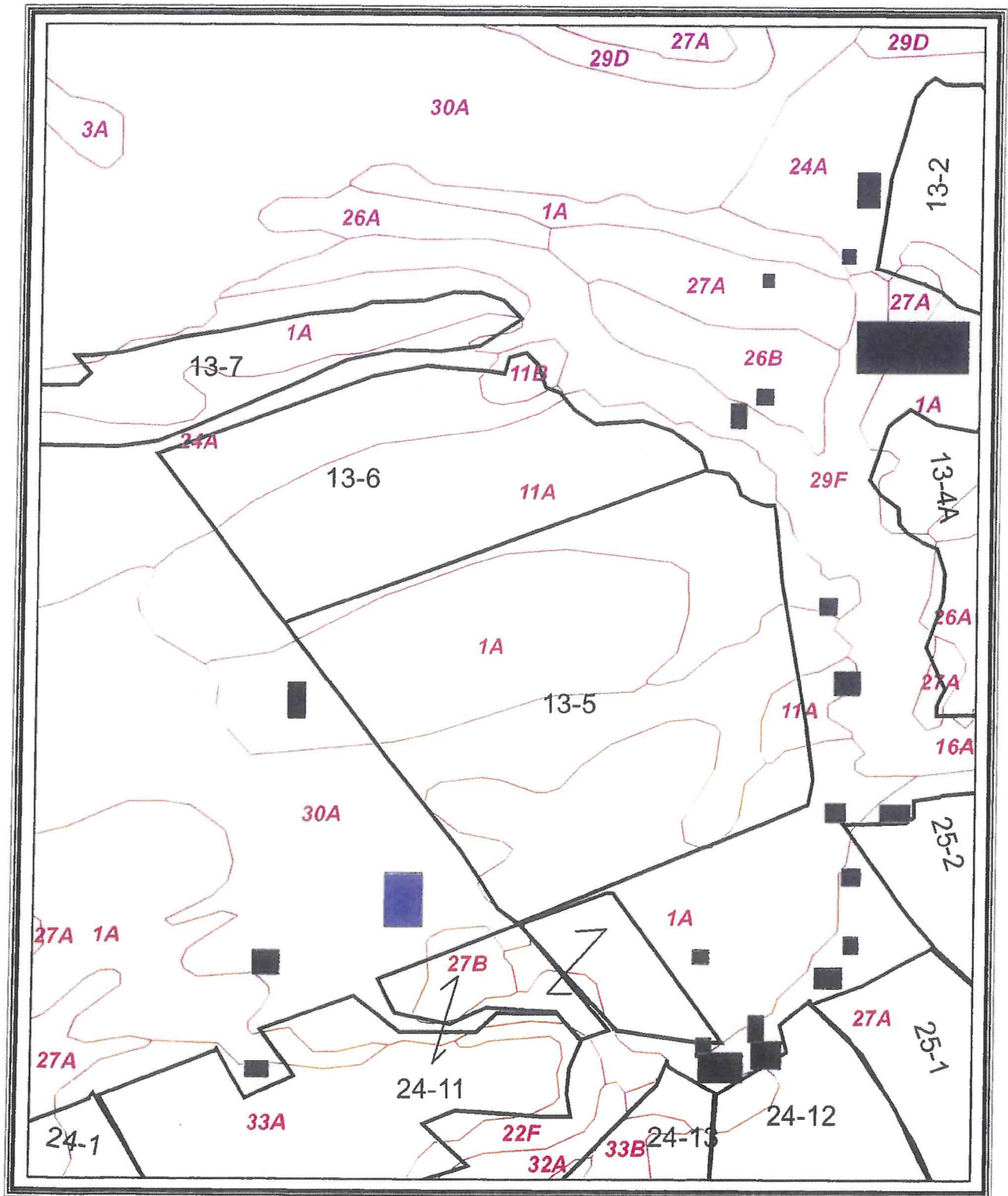
1:7,920



SYNAGRO

A Residuals Management Company

Joe Watkins
KW 13
Fields 5 and 6



1 inch = 660 feet

1:7,920



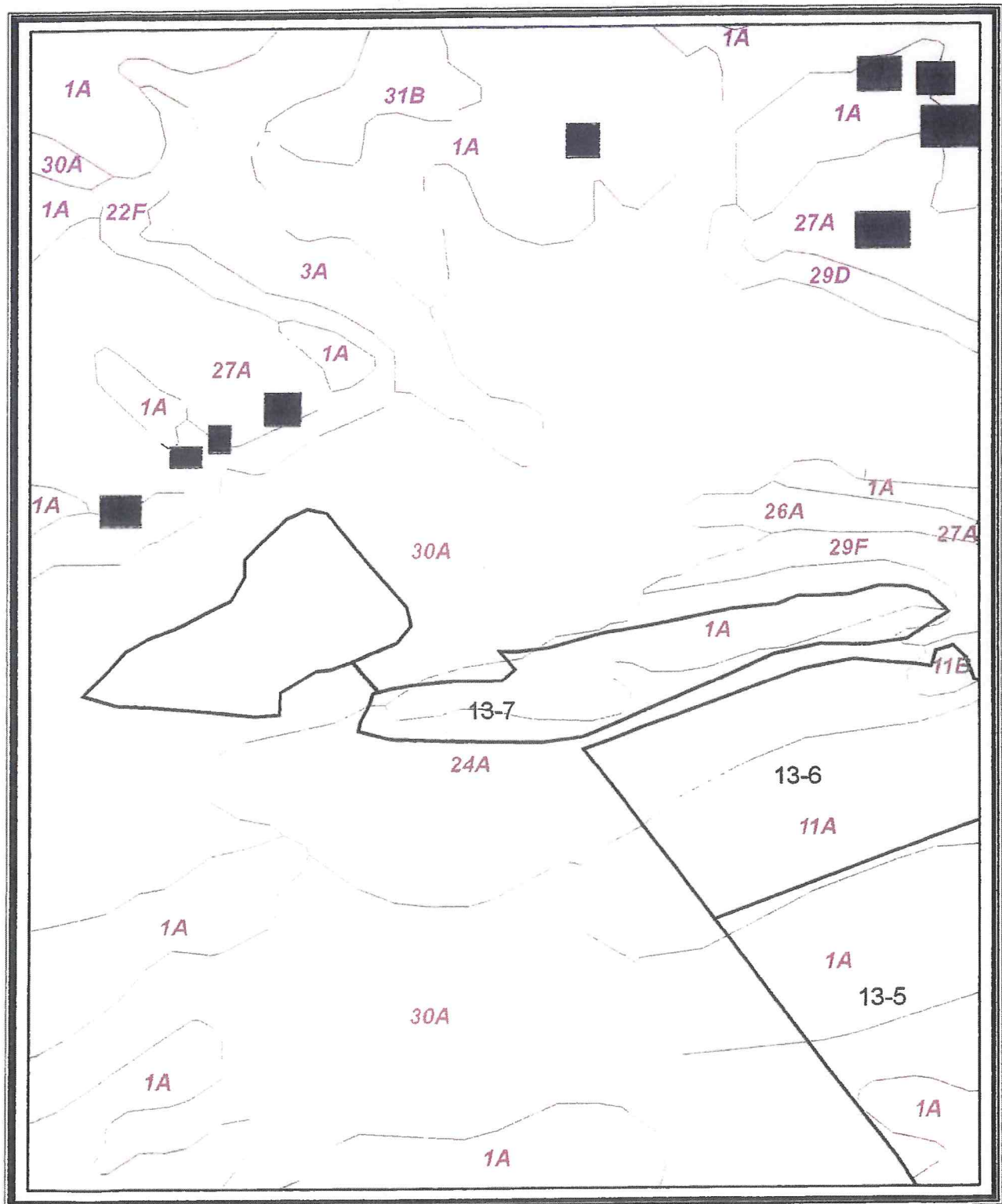
SYNAGRO

A Residuals Management Company

JOE WALKER

KW 13

Field 7



1 inch equals 660.000000 feet

1:7,920

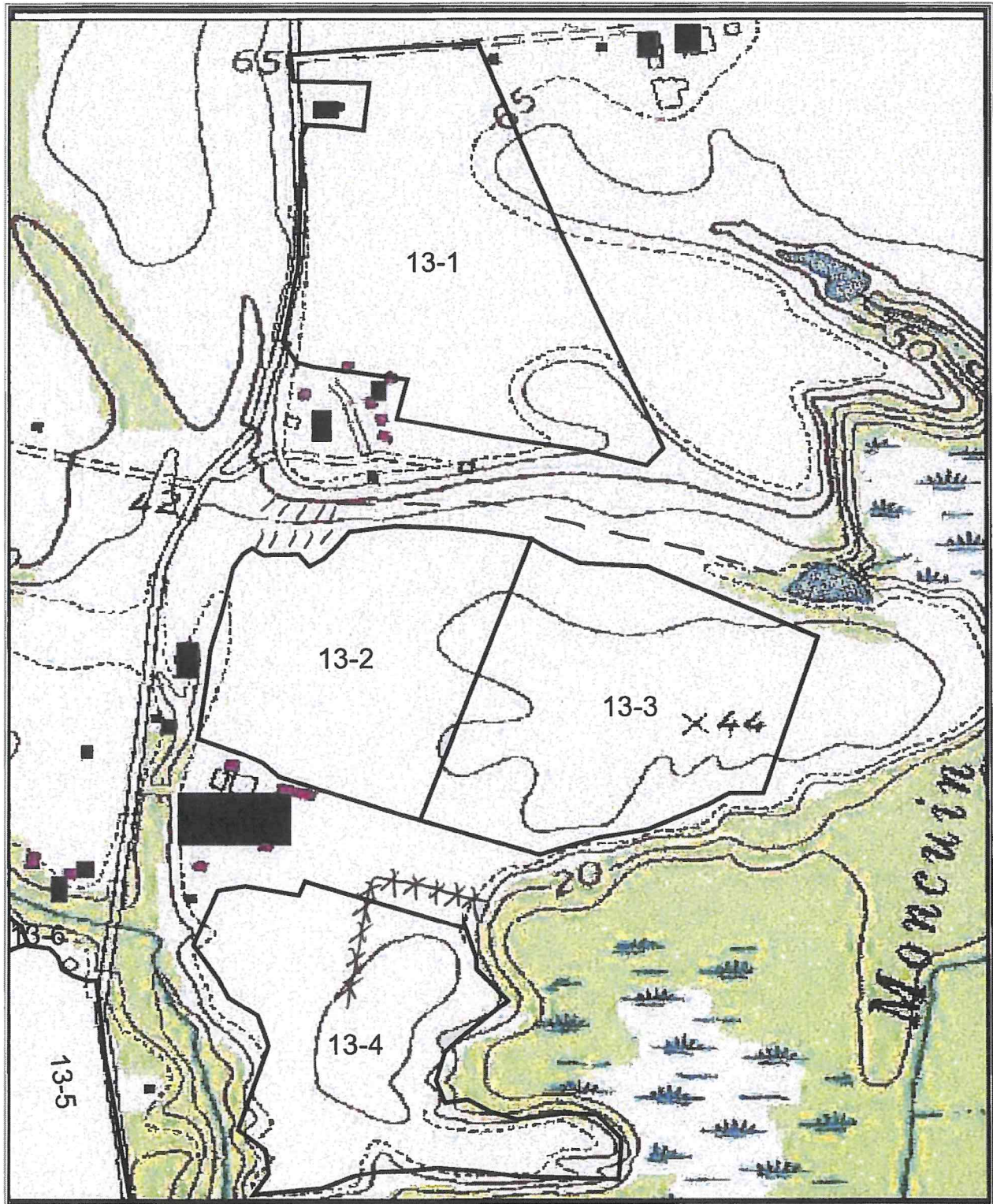




SYNAGRO

Joe Watkins
KW 13

A Residuals Management Company



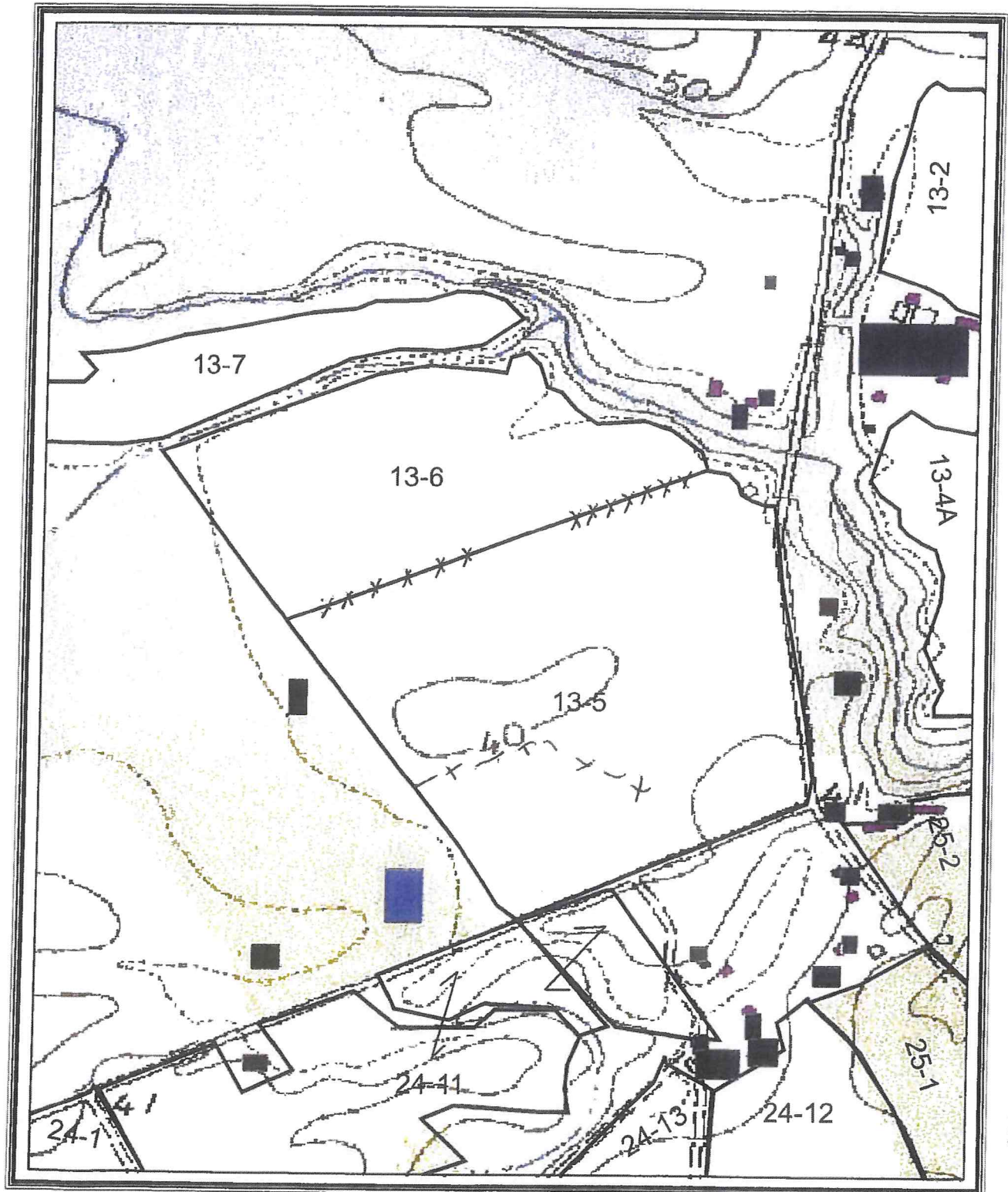
1 inch = 660 feet

1:7,920



A Residuals Management Company

Joe Watkins
KW 13
Fields 5 and 6



1 inch = 660 feet

1:7,920



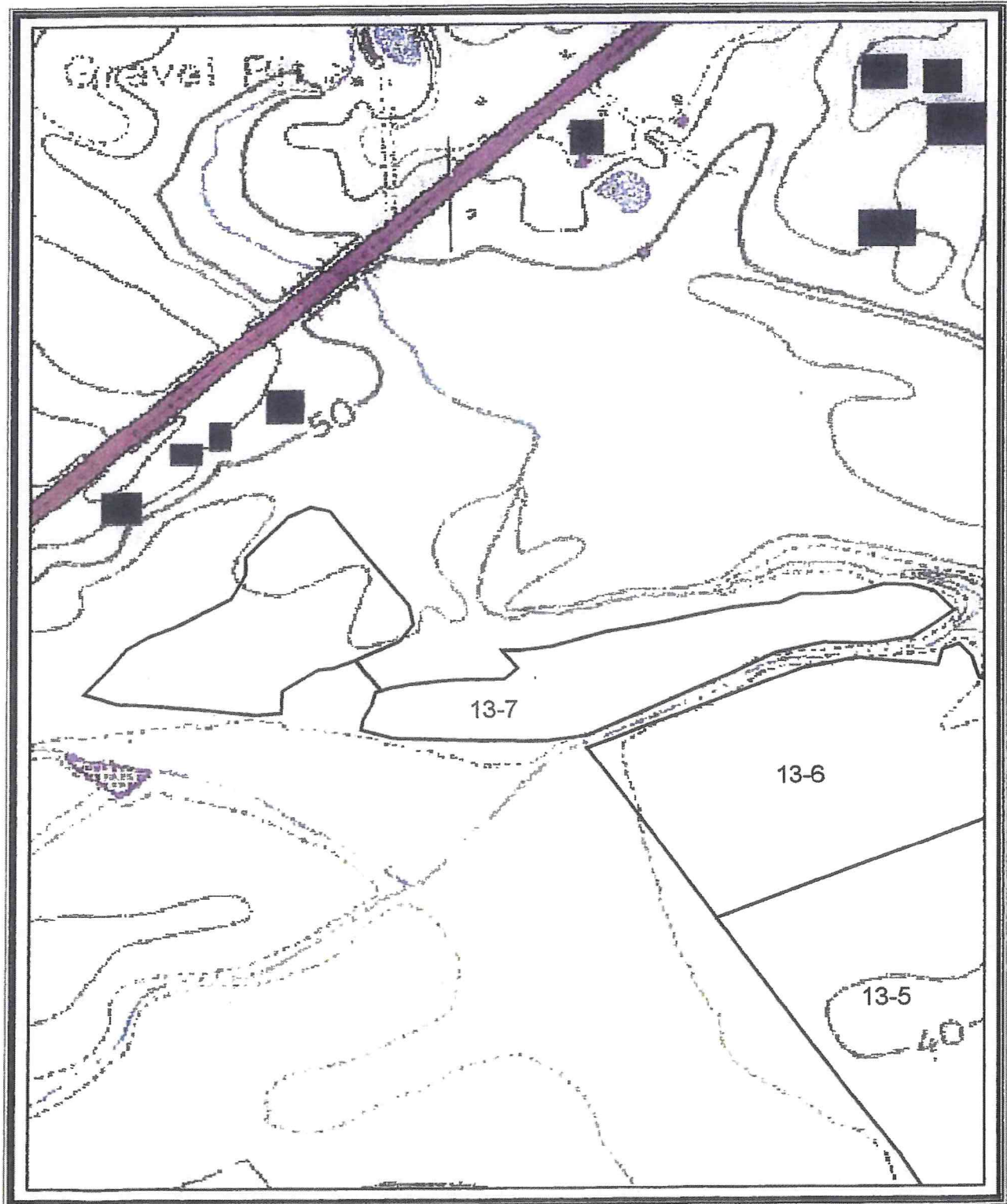
SYNAGRO

A Residuals Management Company

000 VVAKH110

KW 13

Field 7

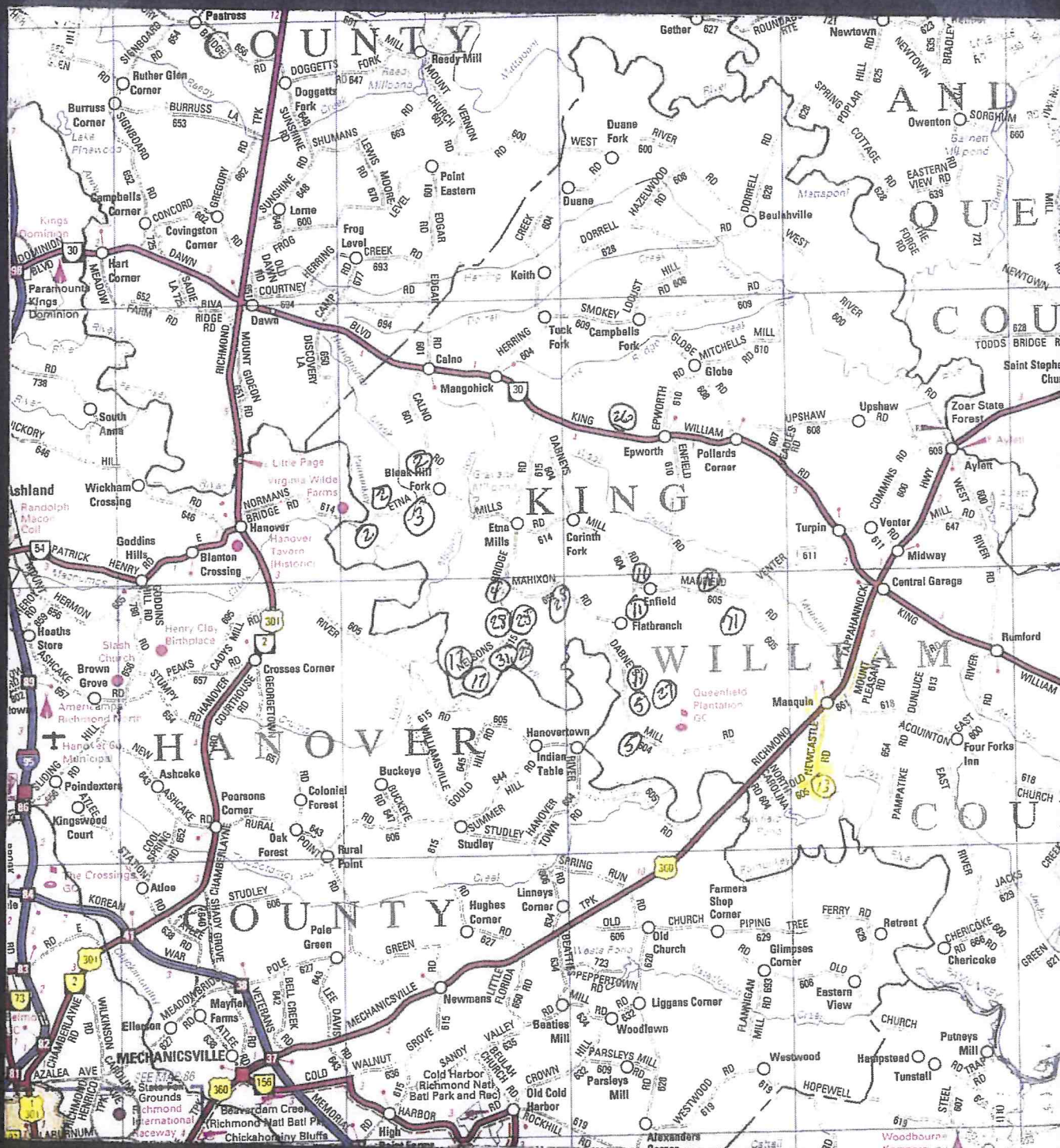


1 inch equals 660.000000 feet

1:7,920



A Residuals Management Company



SCALE 1:150,000

VICINITY MAP

